RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _10/002,603β_

Source: _1Fu/6_

Date Processed by STIC: _2/1/07_

ENTERED

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RAW SEQUENCE LISTING                      DATE: 02/01/2007
PATENT APPLICATION:  US/10/002,603B       TIME: 15:10:57

Input Set : F:\465c6.app.txt
Output Set: N:\CRF4\02012007\J002603B.raw
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```
 3 <110> APPLICANT: Gaiger, Alexander
 4          McNeill, Patricia D.
 5          Smithgall, Molly D.
 6          Moulton, Gus
 7          Vedvick, Thomas S.
 8          Sleath, Paul R.
 9          Mossman, Sally P.
10          Evans, Lawrence S.
11          Spies, A. Gregory
12        · Boydston, Jeremy
15 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR WT1
16          SPECIFIC IMMUNOTHERAPY
18 <130> FILE REFERENCE: 210121.465C6
20 <140> CURRENT APPLICATION NUMBER: US 10/002,603B
21 <141> CURRENT FILING DATE: 2001-10-30
23 <150> PRIOR APPLICATION NUMBER: US 09/938,864
24 <151> PRIOR FILING DATE: 2001-08-24
26 <160> NUMBER OF SEQ ID NOS: 413
28 <170> SOFTWARE: FastSEQ for Windows Version 3.0
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 17
32 <212> TYPE: PRT
33 <213> ORGANISM: Homo sapien
35 <400> SEQUENCE: 1
36  Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly
37 · 1               5                  10                  15
38  Gly
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 23
43 <212> TYPE: PRT
44 <213> ORGANISM: Homo sapien
46 <400> SEQUENCE: 2
47  Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
48  1               5                  10                  15
49  Tyr Leu Pro Ser Cys Leu Glu
50                20
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 23
54 <212> TYPE: PRT
55 <213> ORGANISM: Mus musculus
57 <400> SEQUENCE: 3
58  Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
59  1               5                  10                  15
```

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60   Tyr Leu Pro Ser Cys Leu Glu
61              20
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 19
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapien
68 <400> SEQUENCE: 4
69   Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser Ser Val Lys
70   1           5                   10                  15
71   Trp Thr Glu
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 22
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
82 <400> SEQUENCE: 5
83   gagagtcaga cttgaaagca gt                                    22
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 20
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
93 <400> SEQUENCE: 6
94   ctgagcctca gcaaatgggc                                       20
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 27
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
104 <400> SEQUENCE: 7
105   gagcatgcat gggctccgac gtgcggg                              27
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 25
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
115 <400> SEQUENCE: 8
116   ggggtaccca ctgaacggtc cccga                                25
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
126 <400> SEQUENCE: 9
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127   tccgagccgc acctcatg                                          18
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 18
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
137 <400> SEQUENCE: 10
138   gcctgggatg ctggactg                                          18
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 27
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
148 <400> SEQUENCE: 11
149   gagcatgcga tgggttccga cgtgcgg                                 27
151 <210> SEQ ID NO: 12
152 <211> LENGTH: 29
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
159 <400> SEQUENCE: 12
160   ggggtacctc aaagcgccac gtggagttt                              29
162 <210> SEQ ID NO: 13
163 <211> LENGTH: 17
164 <212> TYPE: PRT
165 <213> ORGANISM: Mus musculus
167 <400> SEQUENCE: 13
168   Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser Ser Leu Gly Gly Gly
169   1               5                   10                  15
170   Gly
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 19
175 <212> TYPE: PRT
176 <213> ORGANISM: Mus musculus
178 <400> SEQUENCE: 14
179   Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser Ser Val Lys
180   1               5                   10                  15
181   Trp Thr Glu
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 15
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapien
189 <400> SEQUENCE: 15
190   Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
191   1               5                   10                  15
193 <210> SEQ ID NO: 16
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194 <211> LENGTH: 15
195 <212> TYPE: PRT
196 <213> ORGANISM: Mus musculus
198 <400> SEQUENCE: 16
199  Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
200  1               5                   10                  15
202 <210> SEQ ID NO: 17
203 <211> LENGTH: 14
204 <212> TYPE: PRT
205 <213> ORGANISM: Mus musculus
207 <400> SEQUENCE: 17
208  Val Arg Arg Val Ser Gly Val Ala Pro Thr Leu Val Arg Ser
209  1               5                   10
211 <210> SEQ ID NO: 18
212 <211> LENGTH: 14
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapien
216 <400> SEQUENCE: 18
217  Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser
218  1               5                   10
220 <210> SEQ ID NO: 19
221 <211> LENGTH: 15
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapien
225 <400> SEQUENCE: 19
226  Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His
227  1               5                   10                  15
229 <210> SEQ ID NO: 20
230 <211> LENGTH: 15
231 <212> TYPE: PRT
232 <213> ORGANISM: Mus musculus
234 <400> SEQUENCE: 20
235  Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His
236  1               5                  .10                  15
238 <210> SEQ ID NO: 21
239 <211> LENGTH: 21
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: sense primer for amplification of
245       WT1 in mouse cell lines
247 <400> SEQUENCE: 21
248  cccaggctgc aataagagat a                                      21
250 <210> SEQ ID NO: 22
251 <211> LENGTH: 21
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: antisense primer for amplification
```

RAW SEQUENCE LISTING   DATE: 02/01/2007
PATENT APPLICATION: US/10/002,603B   TIME: 15:10:57

Input Set : F:\465c6.app.txt
Output Set: N:\CRF4\02012007\J002603B.raw

```
257       of WT1 in mouse cell lines
259 <400> SEQUENCE: 22
260  atgttgtgat ggcggaccaa t                                      21
262 <210> SEQ ID NO: 23
263 <211> LENGTH: 20
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: sense Beta Actin primer used
269       in the control reactions
271 <400> SEQUENCE: 23
272  gtggggcgcc ccaggcacca                                        20
274 <210> SEQ ID NO: 24
275 <211> LENGTH: 24
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: antisense Beta Actin primer used
281       in the control reactions
283 <400> SEQUENCE: 24
284  gtccttaatg ctacgcacga tttc                                   24
286 <210> SEQ ID NO: 25
287 <211> LENGTH: 21
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
294 <400> SEQUENCE: 25
295  ggcatctgag accagtgaga a                                      21
297 <210> SEQ ID NO: 26
298 <211> LENGTH: 21
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Primer for use in nested RT-PCR
305 <400> SEQUENCE: 26
306  gctgtcccac ttacagatgc a                                      21
308 <210> SEQ ID NO: 27
309 <211> LENGTH: 21
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Primer for use in nested RT-PCR
316 <400> SEQUENCE: 27
317  tcaaagcgcc agctggagtt t                                      21
319 <210> SEQ ID NO: 28
320 <211> LENGTH: 9
321 <212> TYPE: PRT
322 <213> ORGANISM: Homo sapien
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 02/01/2007
PATENT APPLICATION: US/10/002,603B   TIME: 15:10:58

Input Set : **F:\465c6.app.txt**
Output Set: **N:\CRF4\02012007\J002603B.raw**

<u>Please Note:</u>
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:406; Xaa Pos. 85,86,172,173,242,245,246,247

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/002,603B**

DATE: 02/01/2007
TIME: 15:10:58

Input Set : **F:\465c6.app.txt**
Output Set: **N:\CRF4\02012007\J002603B.raw**

L:5162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:406 after pos.:80
M:341 Repeated in SeqNo=406